

Claims

1. An external storage apparatus comprising:
- a main body;
 - 5 a memory substrate, on which at least a semiconductor memory is mounted, having an external connection terminal at one end thereof;
 - a substrate through-hole through which said memory substrate is inserted to be held;
 - 10 a substrate holder fixing said memory substrate to said main body in a state that said external connection terminal projected outwards from one end open portion of said substrate through hole;
 - a cap for protecting said external connection terminal
 - 15 and freely attachable and detachable to and from said substrate holder;
 - said external storage apparatus characterized in that:
 - on said memory substrate, an image sensor provided with a sensing surface at upper portion thereof for fingerprint
 - 20 authentication is mounted at a surface on an opposite side to a surface mounted said external connection terminal;
 - said substrate holder has a protective plate on which a window positioned directly above said image sensor is formed so as to expose a sensing surface to outside;
 - 25 holding section for holding said protective plate in a vertical direction is provided within said main body.
2. The external storage apparatus according to claim 1, characterized in that said substrate holder has a welded
- 30 surface to be welded to said main body, a welded direction with respect to said main body is a extension direction of

the protective plate.

3. The external storage apparatus according to claim 1, characterized in that a peripheral edge of said window is
5 formed in a tapered shape.

4. The external storage apparatus according to claim 1, characterized in that a cover is attached to said cap for concealing said window when fitting said cap to said substrate
10 holder and a cutout portion for engaging with said cover along a attachment direction is provided in said main body.

5. The external storage apparatus according to claim 4, characterized in that said cover has a curved shape.
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6. The external storage apparatus according to claim 4, characterized in that said cover has a transparent property.

7. The external storage apparatus according to claim 1
20 further comprising an auxiliary member connected to said external connection terminal for joining said external connection terminal into a connection port of a computer;
said external storage apparatus characterized in that:
said auxiliary member has
25 a main body into which said substrate holder is inserted,
a seating section supporting said substrate holder in a lying down position, and
a cover for concealing said window in a freely sliding manner.

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